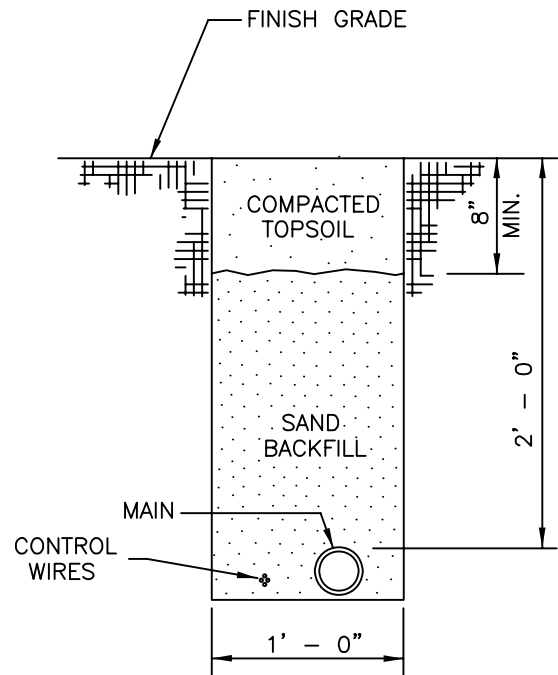
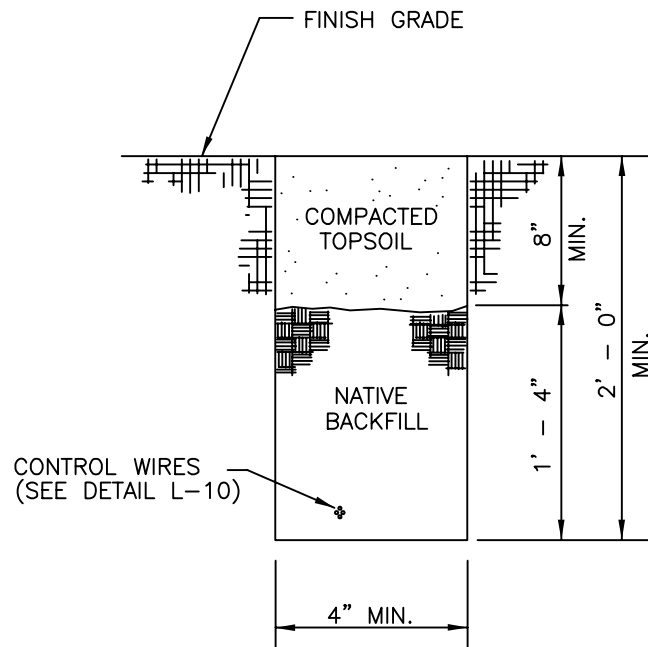


**LATERAL LINE AND
POTABLE LINE**



MAIN AND CONDUCTORS



CONDUCTORS ONLY

NOTES:

1. TAPE AND BUNDLE WIRING AT 10 FOOT INTERVALS.
2. NATIVE BACKFILL AND TOP SOIL TO BE FREE OF ROCK AND DEBRIS.(3/4" MAX. ROCK SIZE)



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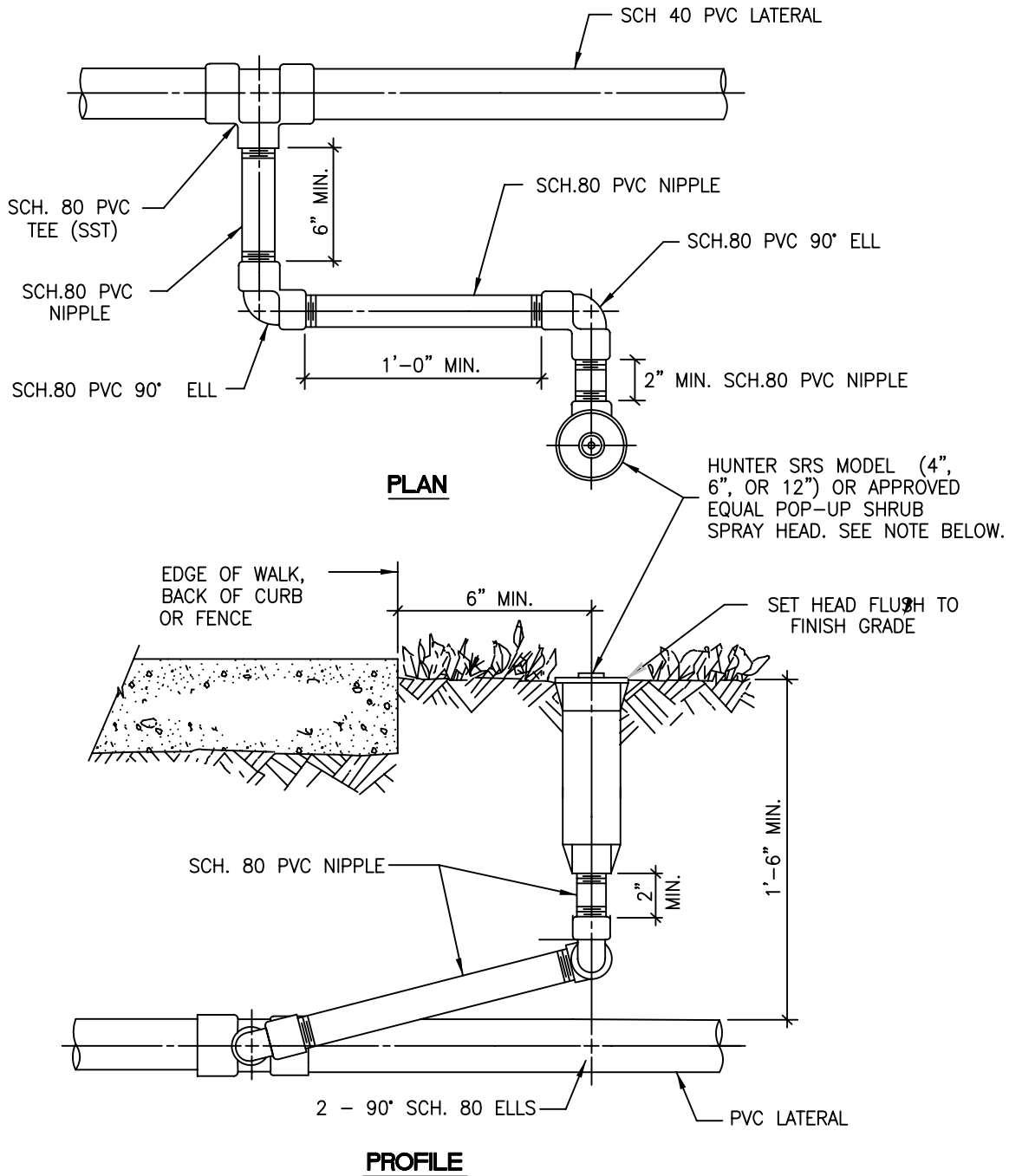
8/6/98
DATE

6/8/00
REVISED

**IRRIGATION
AND
DRAIN LINE TRENCH**

DRAWING
NO.

L-1



NOTE:

1. POP-UP SIZE DEPENDENT UPON PLANT MATERIAL.



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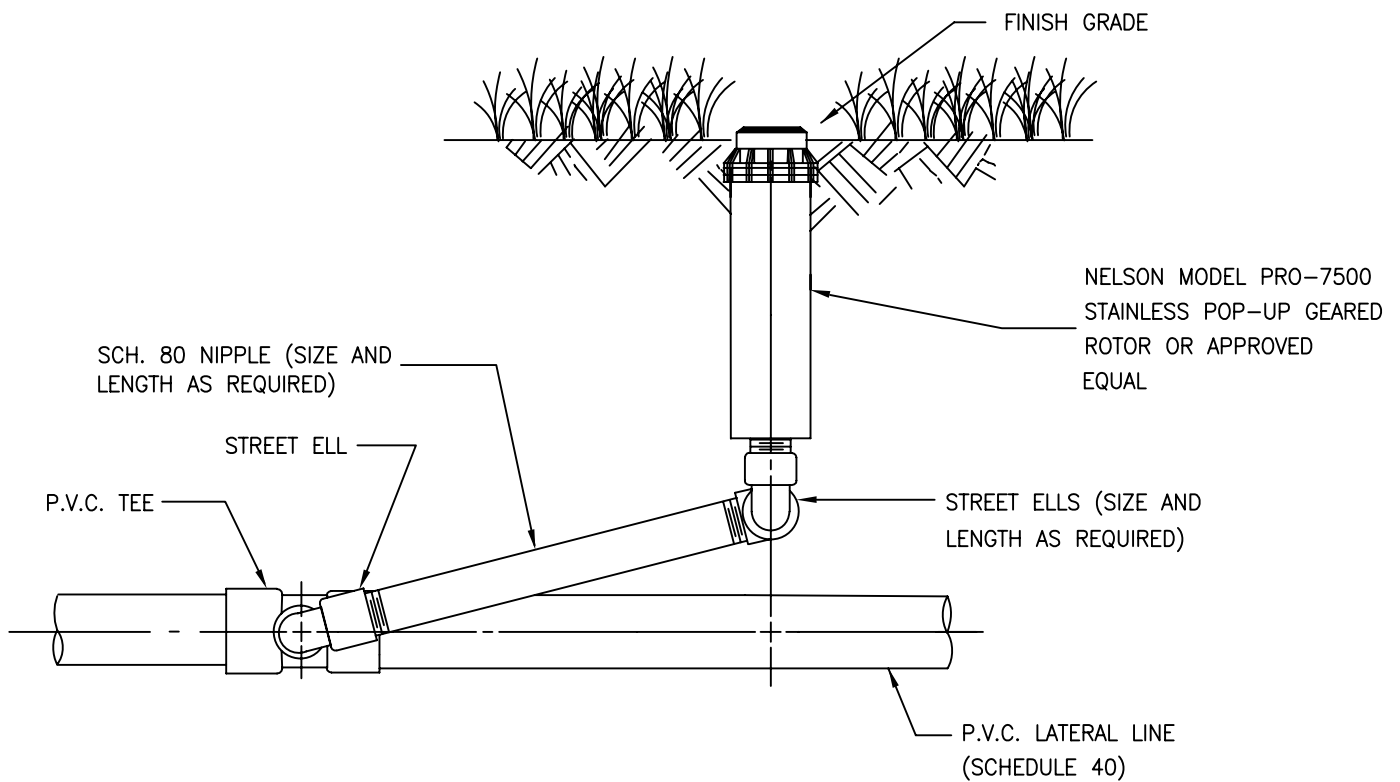
8/6/98
DATE

REVISD

HIGH POP-UP SHRUB HEAD

DRAWING
NO.

L-2



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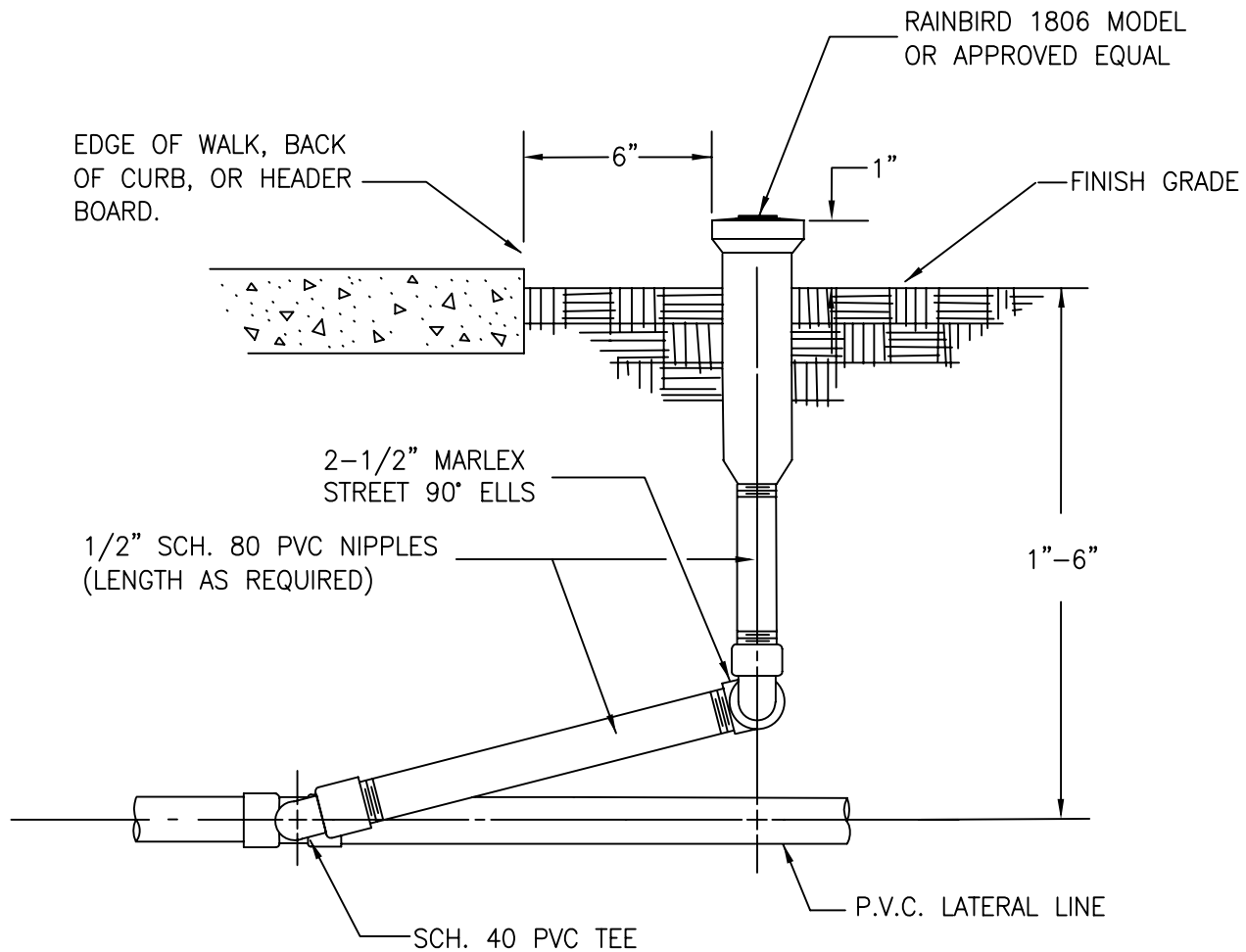
8/6/98
DATE

REVISED

TURF ROTOR POP-UP RISER

DRAWING
NO.

L-3



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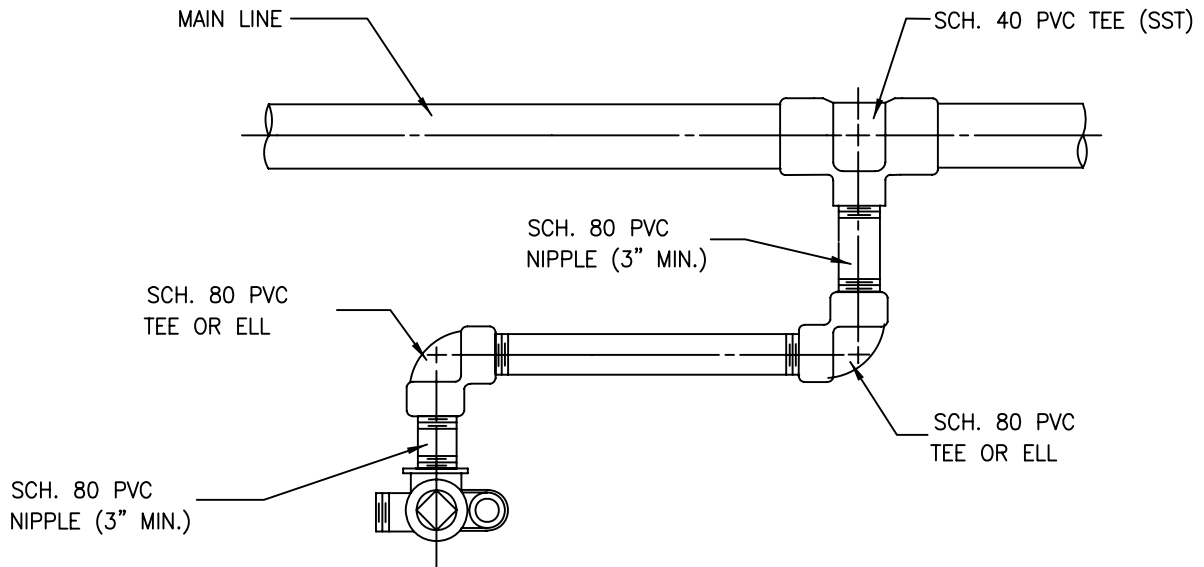
8/6/98
DATE

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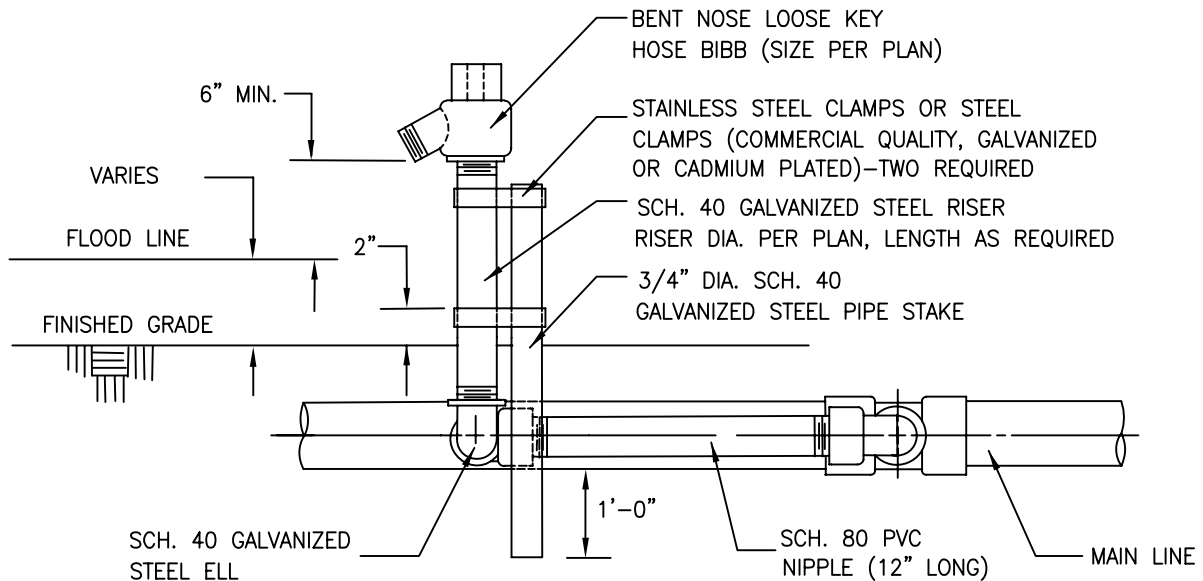
6" POP-UP SPRAY HEAD

DRAWING
NO.

L-4



PLAN



ELEVATION

NOTES:

1. ALL PIPE AND FITTINGS TO BE SCH. 80 PVC UNLESS OTHERWISE NOTED.
2. PIPE SIZE FROM MAIN LINE SHALL MATCH HOSE BIBB INLET DIAMETER.
3. DISSIMILAR METALS SHALL BE SEPARATED BY AN APPROVED DIELECTRIC COUPLING.
4. PLASTIC PIPE SHALL NOT BE USED ABOVE GRADE.



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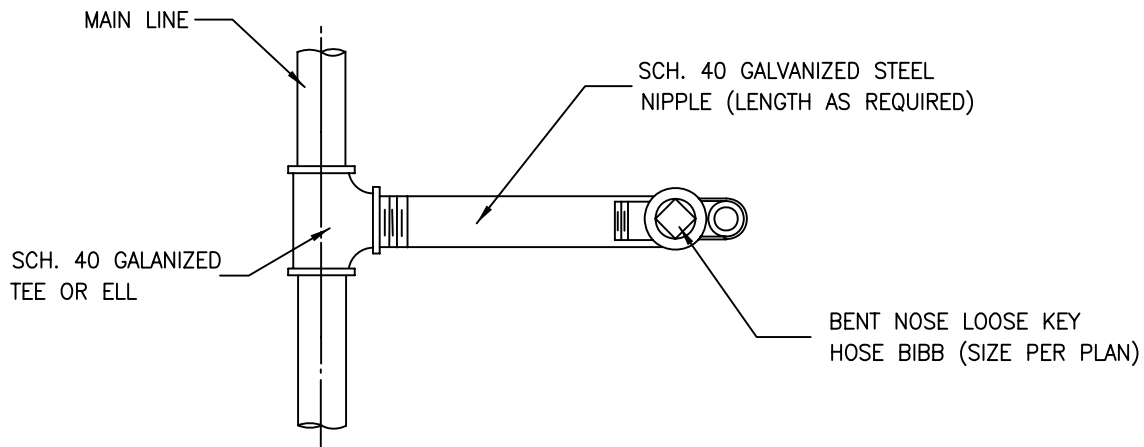
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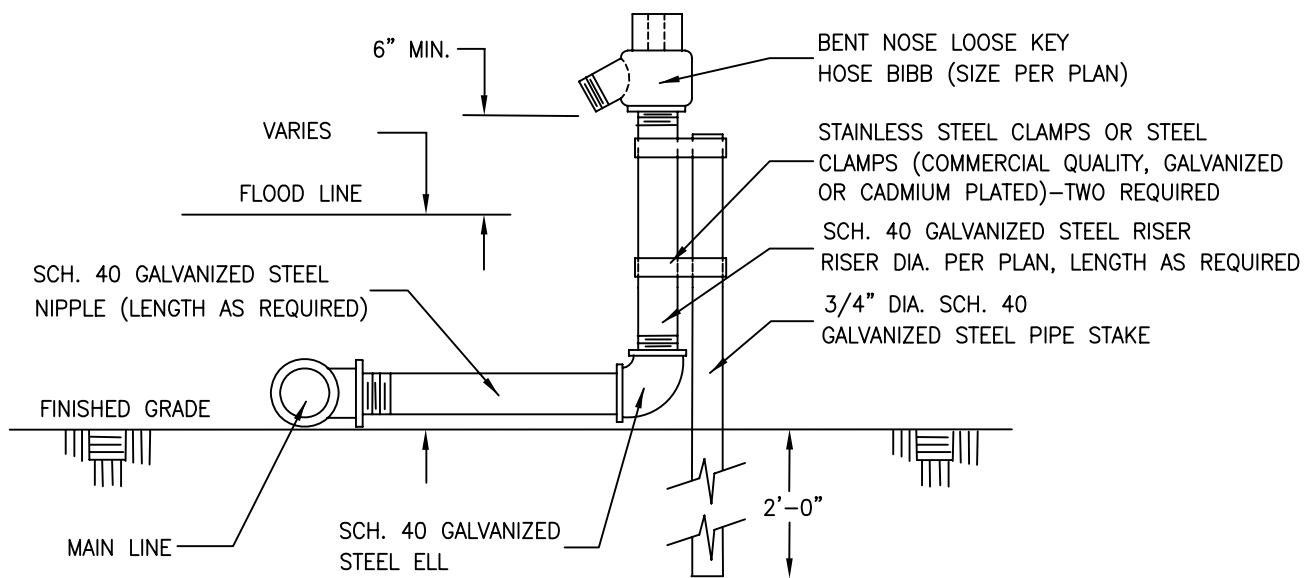
**HOSE BIBB VALVE
BELOW GROUND INSTALLATION**

DRAWING
NO.

L-5



PLAN



ELEVATION

NOTES:

1. ALL PIPE AND FITTINGS TO BE SCH. 40 GALVANIZED STEEL UNLESS OTHERWISE NOTED.
2. PIPE SIZE FROM MAIN LINE SHALL MATCH HOSE BIBB INLET DIAMETER.
3. DISSIMILAR METALS SHALL BE SEPARATED BY AN APPROVED DIELECTRIC COUPLING.
4. PLASTIC PIPE SHALL NOT BE USED ABOVE GRADE.



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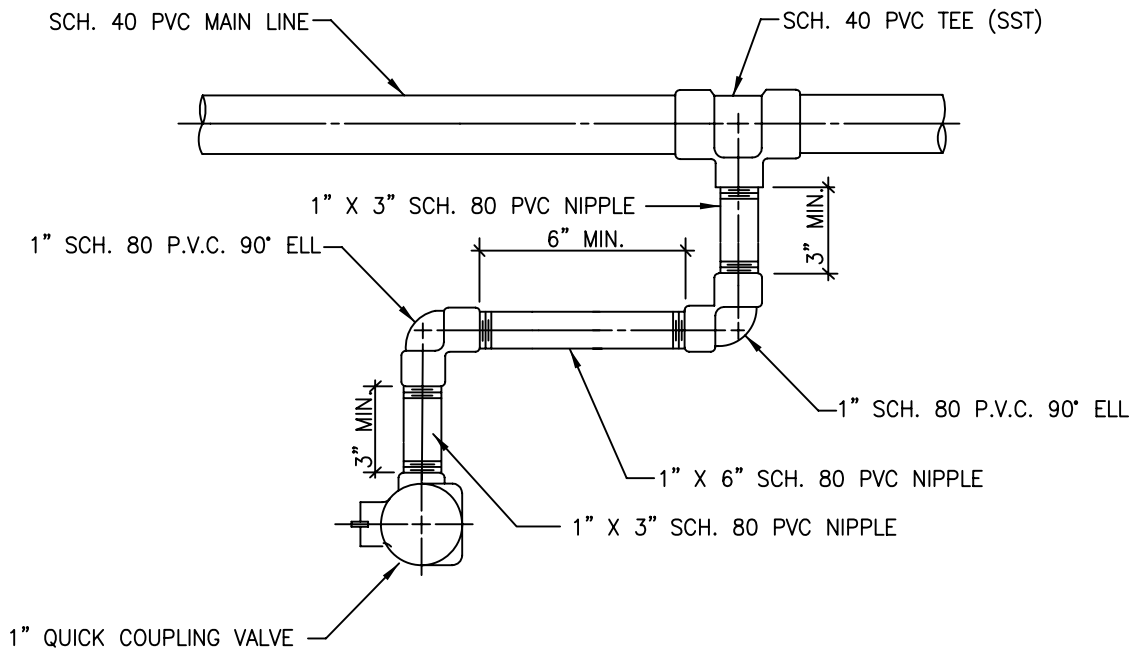
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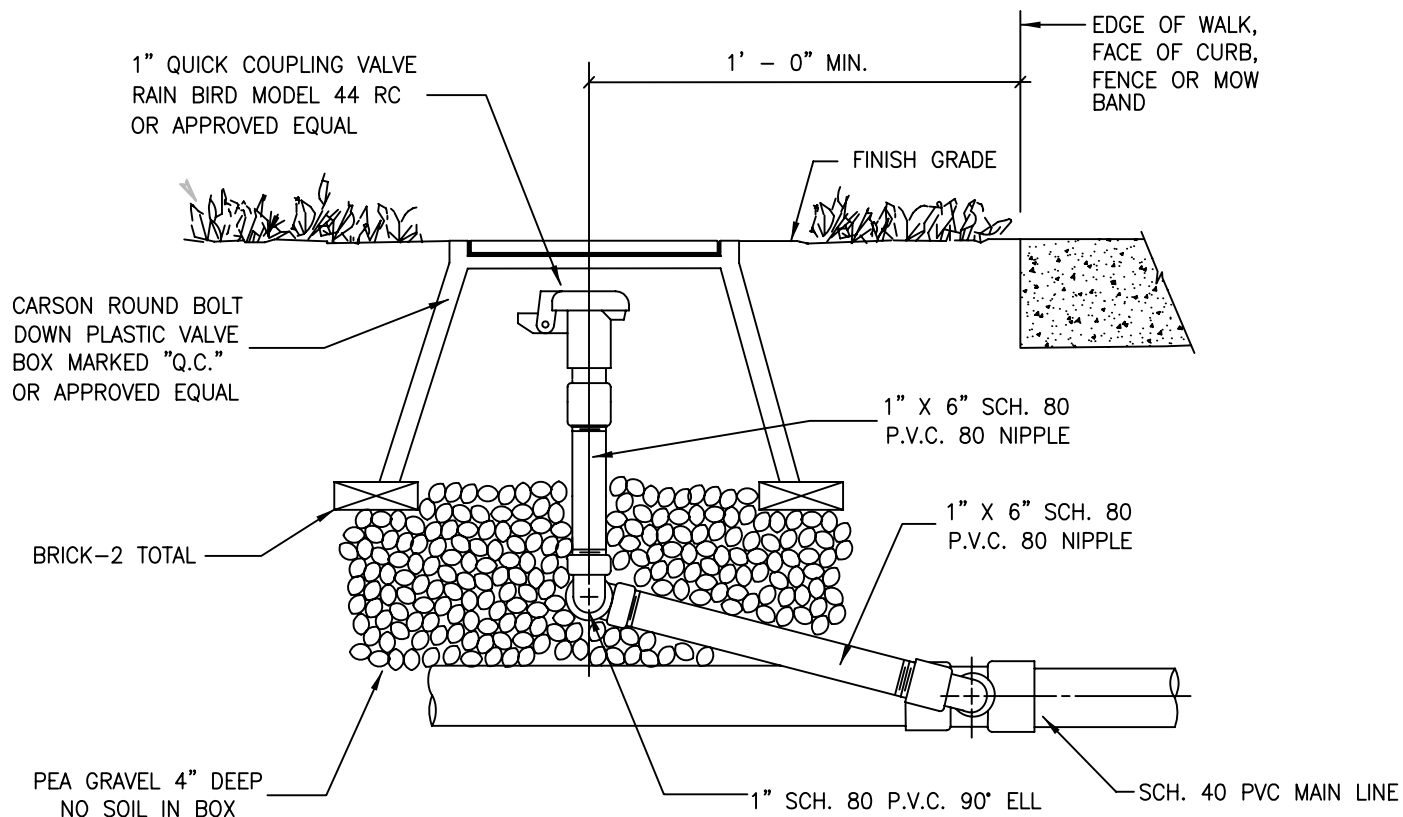
**HOSE BIBB VALVE
ABOVE GROUND INSTALLATION**

DRAWING
NO.

L-6



PLAN



PROFILE

NOTES:

1. ALL PIPING TUBE TO BE 1" OR LARGER.
2. VALVE BOX LID TO HAVE "Q.C." MOLDED INTO TOP OF LID OR BRASS TAG INSTALLED ON LID MARKED "Q.C.".



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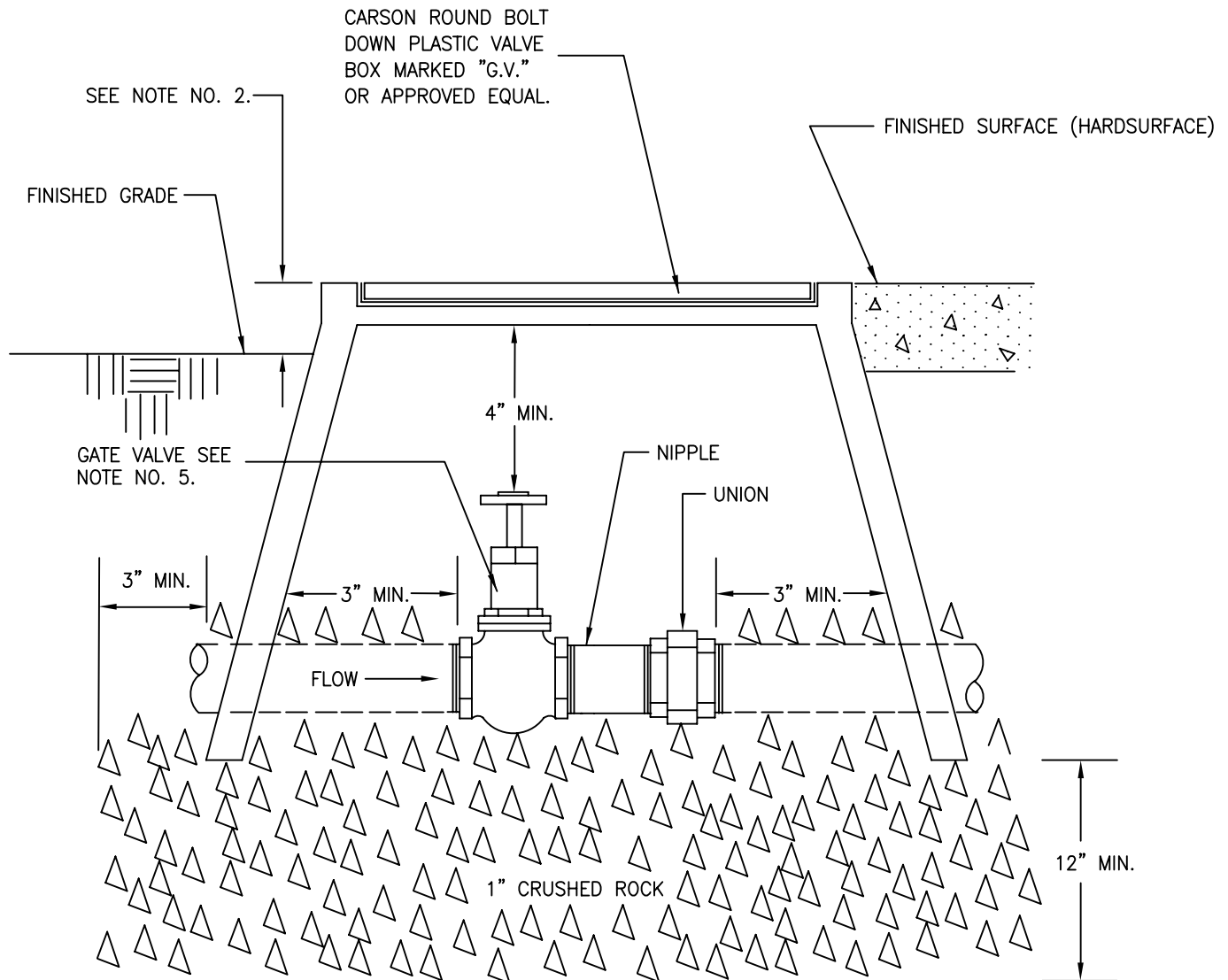
8/6/98
DATE

REvised

1" QUICK COUPLING VALVE

DRAWING
NO.

L-7



NOTES:

1. AREA AROUND BOX CAN EITHER BE PLANTED, HARDSURFACE OR A COMBINATION.
2. TOP OF BOX:
 $\frac{1}{2}$ " ABOVE GRADE OR LAWN.
 1" ABOVE GRADE FOR GROUND COVER OR SHRUBS.
3. CLOSE NIPPLES SHALL NOT BE USED.
4. CRUSHED ROCK SHALL COVER VALVE BOX PIPE OPENINGS TO PREVENT SOIL ENTRY.
5. GATE VALVE SHALL BE "RED & WHITE", OR APPROVED EQUAL.



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8/6/98
DATE

REVISD

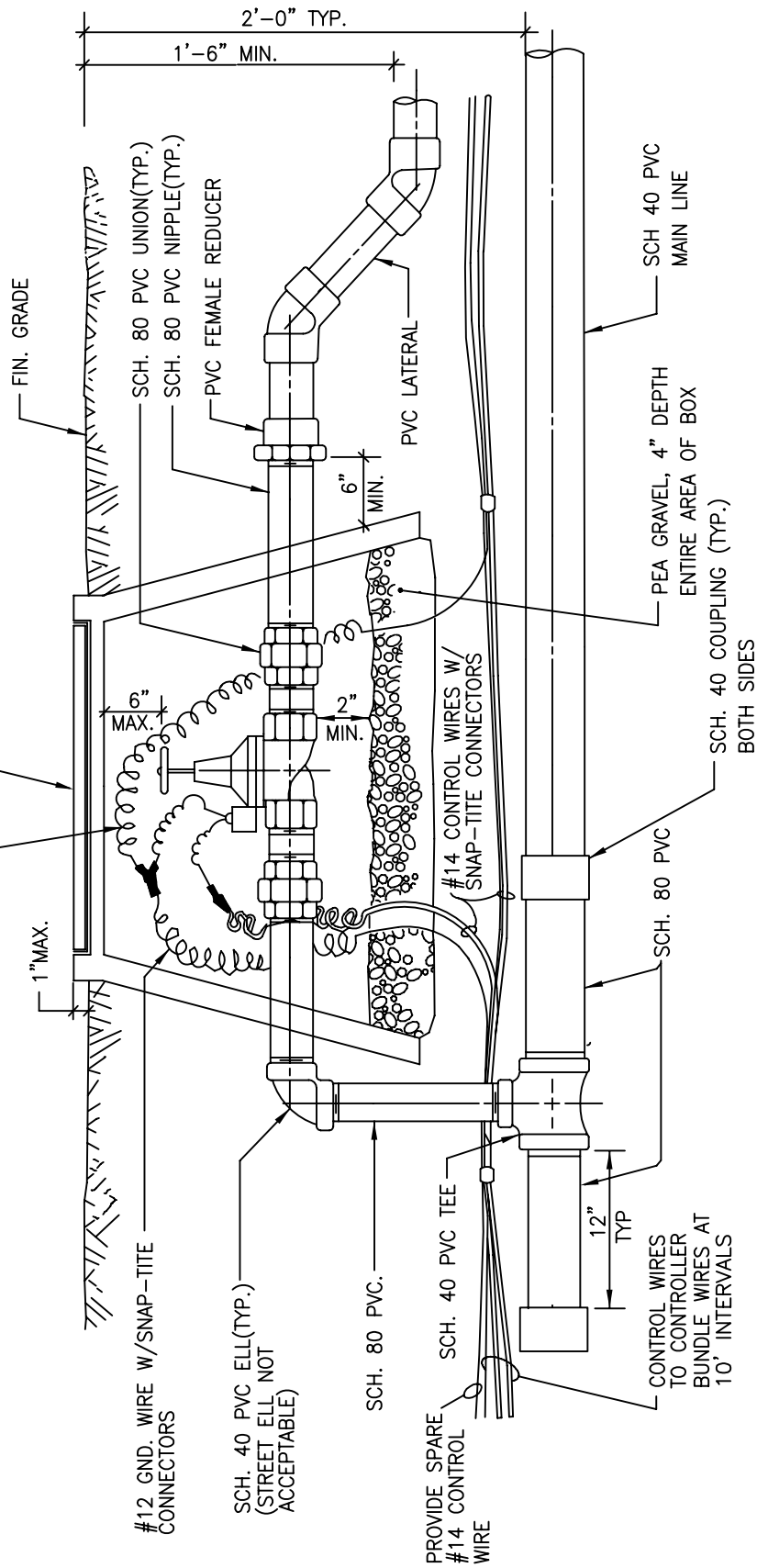
GATE VALVE

DRAWING
NO.

L-8

PLASTIC BOX WITH LOCKABLE COVER, SET FLUSH TO GRADE WITHIN THE MEDIAN OR BACK-UP AREA. BOX SHALL BE "CARSON", OR APPROVED EQUAL. LID TO HAVE "RCV STA. #____" MOLDED TO LID, OR STAMPED ON BRASS TAG.

ALL CONTROL WIRES SHALL BE COILED 3 FEET INTO EACH BOX EXCEPT IN CLUSTERS



NOTE: HEAVILY COAT ALL THREADED AREAS WITH JOINT COMPOUND.

NOTE: CONTROL VALVE TO BE GRISWOLD 2000 SERIES OR APPROVED EQUAL.



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8/6/98
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REMOTE CONTROL VALVE WITHOUT Q.C. VALVE

DRAWING
NO.

L-9

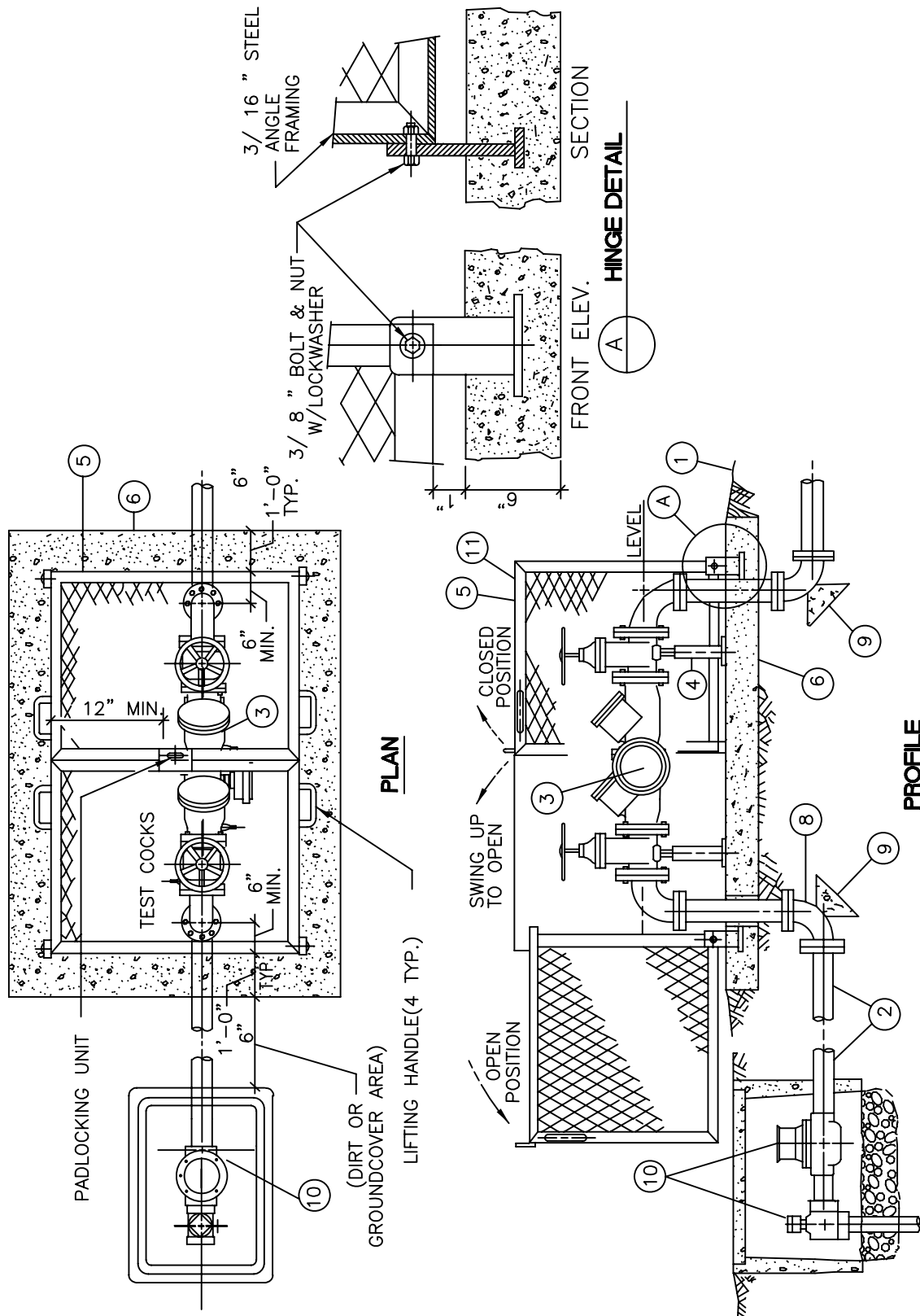


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DRAWING
NO.

L-10



(FOR MEDIAN ISLANDS & PUBLIC PARKS/FACILITIES
(FOR SIZES 2 1/2\" TO 4\"))

NOTE: FOR NOTES AND LEGEND SEE SHEET L-8.



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8/6/98
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R.P BACKFLOW PREVENTER WITH DOUBLE-SWING HINGED ENCLOSURE

DRAWING
NO.

L-11

NOTE: THESE NOTES APPLY TO LANDSCAPING WORK. FOR DOMESTIC, COMMERCIAL/INDUSTRIAL APPLICATIONS, SEE "W"—WATER SECTION.

LEGEND

- ① Finish Grade.
- ② Service size galvanized steel pipe from water meter. Use Ductile Iron Pipe with flange fittings for sizes 2 1/2" and larger.
- ③ Reduced Pressure Backflow Preventer FEBCO 825Y (or approved equal) for sizes 3/4" through 2", and FEBCO 825 YD (or approved equal) for sizes 2 1/2" to 4".
- ④ Adjustable pipe saddle support, galvanized steel, suitable for supporting general piping 4" and larger.
- ⑤ Backflow preventer enclosure manufactured by Lemeur (or approved equal). Enclosure shall be single-swing type for backflow unit sizes 3/4" through 2" and double-swing type ("clam shell") for backflow unit sizes 2 1/2" through 4". Frame shall be 1 1/2" X 1 1/2" X 3/16" steel angle with 1 1/2" #9 expanded metal. Install as shown on plans.
- ⑥ 6" concrete enclosure pad, size as shown on the plan.
- ⑦ Service size galvanized steel pipe riser with a minimum of two (2) unions for threaded connections (sizes 1" to 2").
- ⑧ 90° elbow, flanged or threaded, wrapped with 10 mil PVC tape.
- ⑨ Concrete thrust block for service size 4" or larger (see detail W-12).
- ⑩ Water meter and service by others (see detail W-1)
- ⑪ Two coats of enamel. Color specified per approved plans.

NOTES:

- 1. Gate valves and test cocks are required.
- 2. Water supply— no connections or tees are allowed between the water meter and backflow unit.
- 3. Protection from freeze damage may be required in exposed areas.
- 4. Device must be accessible for testing and maintenance. Prior to activation, call 776-7333 for backflow device inspection.
- 5. Wrap buried galvanized pipe with 3M tape or approved equal.



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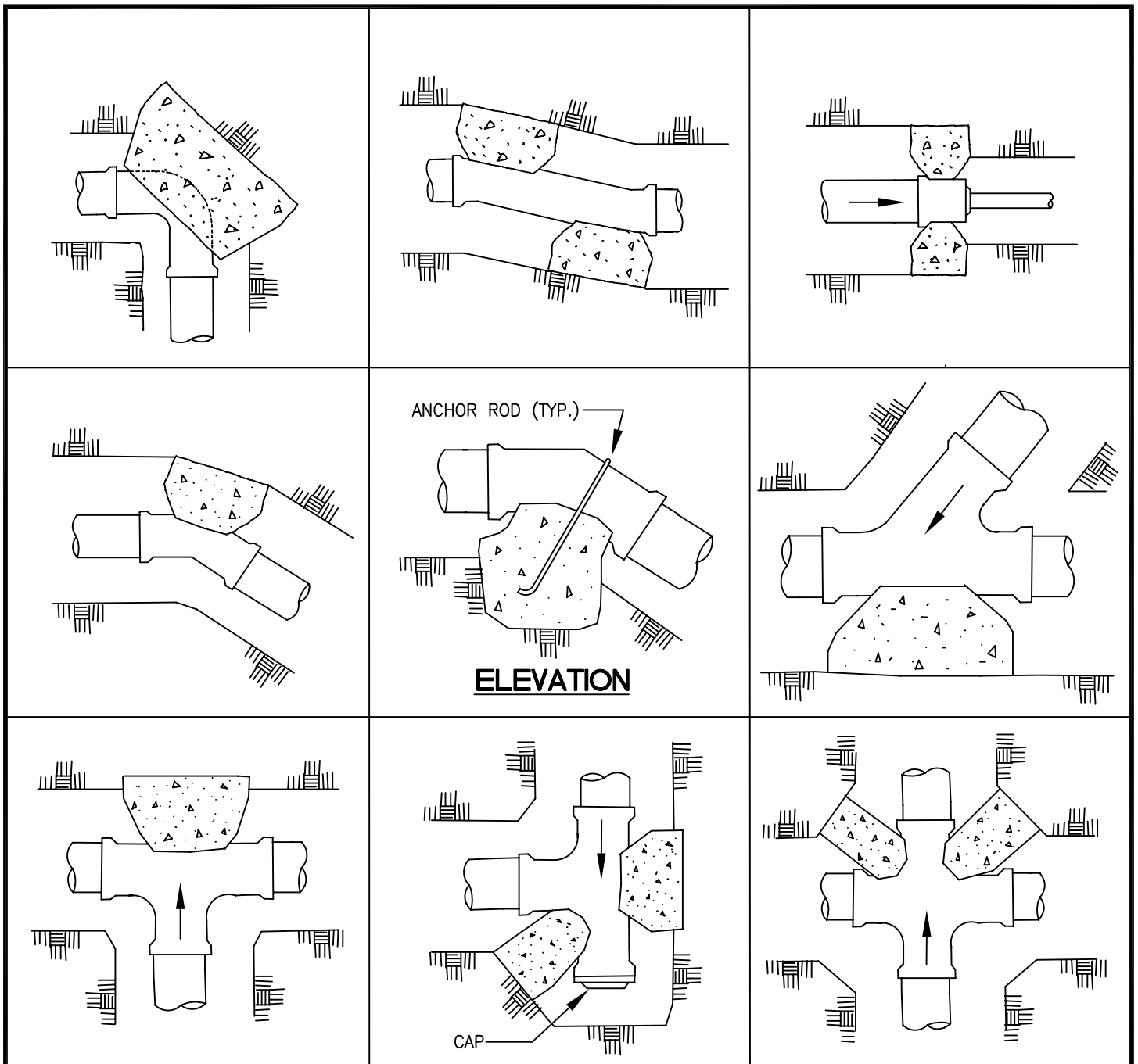
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**LANDSCAPE BACKFLOW
PREVENTER
LEGEND AND NOTES**

DRAWING
NO.

L-12



NOTES:

1. ALL PLASTIC PIPE TO BE INSTALLED ACCORDING TO THESE DETAILS UNLESS OTHERWISE NOTED OR DETAILED.
2. THE PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE 420-C-2000 CONCRETE.
3. ALL ANCHOR RODS SHALL BE GALVANIZED STEEL, MINIMUM 1/2" DIAMETER, WRAPPED AROUND PIPE.
4. SIZE OF THRUST BLOCKS SHALL BE SPECIFIED ON PLANS.
5. THRUST BLOCKS SHALL BE USED FOR PLASTIC PIPES WITH 3" DIAMETER OR LARGER.
6. FLOW DIRECTION INDICATED BY
7. ALL VIEWS ARE PLAN VIEW UNLESS OTHERWISE SHOWN.



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Public Works Department

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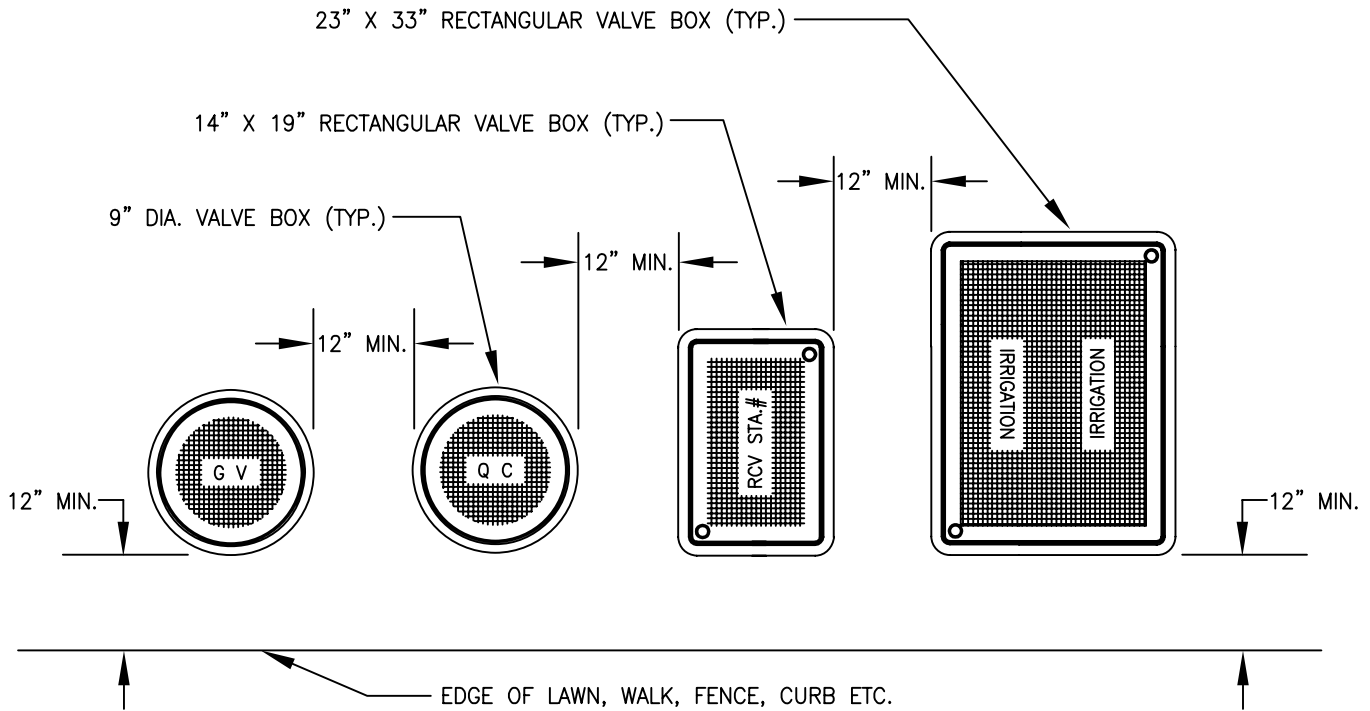
8/6/98
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THRUST BLOCKS FOR PLASTIC PIPES

DRAWING
NO.

L-13



NOTES:

1. CENTER BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER / SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREAS.
3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER / SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN AREA ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
5. AVOID COMPACTING SOIL AROUND VALVE BOX EDGES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. ALL BOXES SHALL BE "CARSON" OR APPROVED EQUAL, AND BE EQUIPPED WITH BOLT DOWN LIDS.
7. ALL VALVE BOX LIDS SHALL IDENTIFY EQUIPMENT CONTAINED IN BOX BY MOLDING OR BRASS TAG TO LID AS FOLLOWS:
 GATE VALVE - "G.V."
 QUICK COUPLER - "Q.C."
 REMOTE CONTROL VALVE - "R.C.V. STA. # ____"
 MISCELLANEOUS ELECTRICAL EQUIPMENT - "ELECTRICAL"
 MISCELLANEOUS IRRIGATION EQUIPMENT - "IRRIGATION"



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VALVE BOX LOCATION

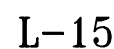
DRAWING
NO.

L-14

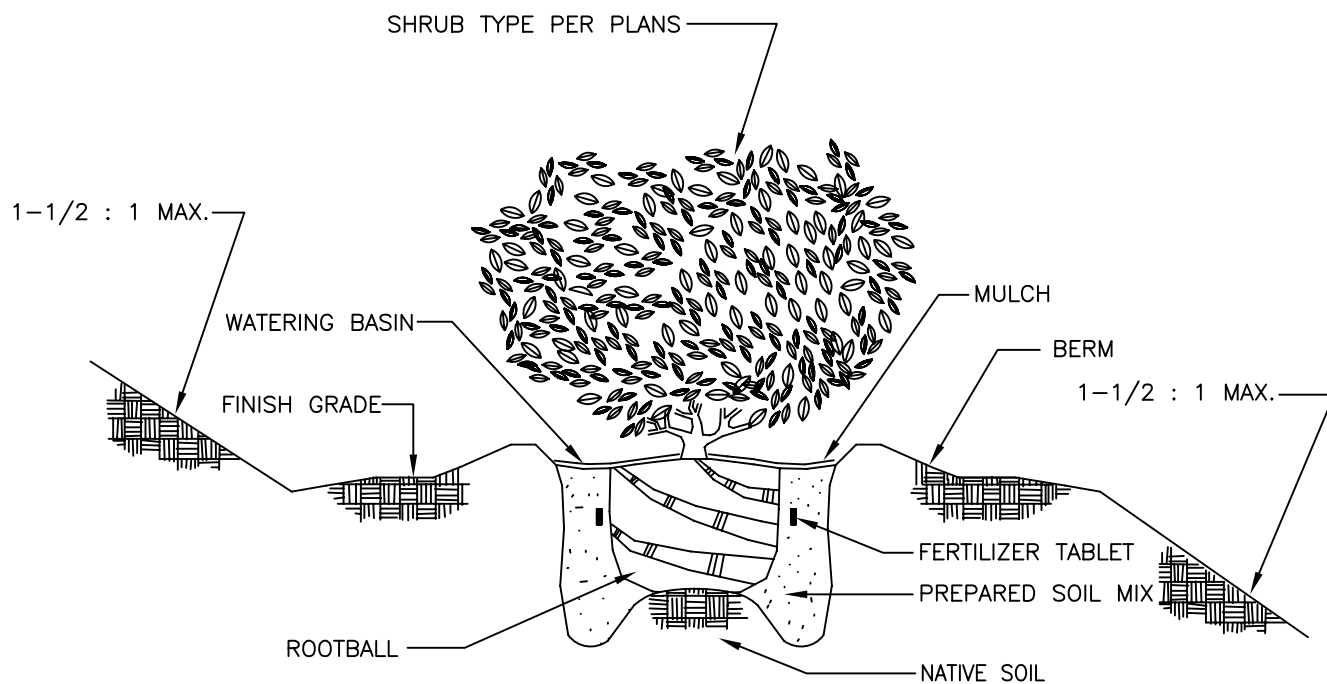
FERTILIZER



- ## NOTES:







NOTES:

1. SET CROWN 1-1/2" ABOVE FINISH GRADE TO ALLOW FOR SETTLEMENT.
2. WELL DEVELOPED SHRUB ROOTBALL; LIGHTLY SCARIFY PERIMETER.
3. SLOW RELEASE FERTIZER TABLET AS PERSPECIFICATIONS.
4. 4" HIGH BERM TEMPORARY WATER BASIN. INSIDE DIAMETER TO EQUAL ROOTBALL DIAMETER.
5. PLANTING HOLE; TWO TIMES DIAMETER AND DEPTH OF SHRUB ROOTBALL. SCARIFY SIDES AND BOTTOM.
6. MULCH AS PER SPECIFICATIONS.
7. BACKFILL MIXTURE AS PER SPECIFICATIONS.



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8/6/98
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SHRUB PLANTING

DRAWING
NO.

L-17

PROHIBITED STREET TREES

Botanical Name

Common Name

Acacia
Ailanthus Glandulosa
Ceratonia Siliqua

Cinnamomum Camphora
Conifers
Eucalyptus
Fruit Trees

Juglans California

Juglans Hindsii

Juglans Regia
Liquidambar Styraciflua
Magnolia Grandiflora
Palms
Pinus Radiata

Platanus Orientalis
Olea Europaea
Populus (Popular Tree)
Robina Pseudoacacia
Sequoia Gigantea
Ulmus Americana

All Species
Trees of Heaven
St. John's Bread
(Carob Tree)
Camphor Tree
All Species
All Species
All Fruit Bearing
Species
California Black
Walnut
American Black
Walnut
English Walnut
American Sweet Gum
Southern Magnolia
All Species
Monterey Pines
(All Species)
European Plane Tree
Olive (Fruiting)
All Species
Black Locust
Redwood
American Elm



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8/6/98
DATE

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PROHIBITED TREE LIST

DRAWING
NO.

L-18

APPROVED TREES

All trees planted within the Public Right of Way, and in publicly maintained districts, shall be planted in accordance with the City of Morgan Hill Street Tree Master Plan. All trees shall be installed in accordance with the applicable drawings of this section. Copies of the Street Tree Master Plan may be obtained from the City of Morgan Hill Community Development Department.

LOW GROWING SHRUBS AND GROUND COVERS

<u>Botanical Name</u>	<u>Common Name</u>
May be used in any parking strip:	
Arctostaphylos 'Emerald Carpet'	Manzanita 'Emerald Carpet'
Convolvulus sp.	Bush Morning Glory
Coprosma Repens	Mirror Plan
Cotoneaster Dammeri	Bearberry Cotoneaster
Erigeron Karvinskianus	Santa Barbara Daisy
Fragaria Chiloensis	Ornamental Strawberry
Gazania sp.	Gazania
Hedera Helix 'Needlepoint'	Needlepoint Ivy
Heimerocallis sp.	Daylily (evergreen varieties)
Hypericum Calycinum	Ivy Geranium
Juniperus Procumbens 'Nana'	Dwarf Japanese Garden Juniper
Juniperus Prostratus	Prostrate Juniper
Lantana sp.	Trailing Lantana
Pelargonium Peltatum	Ivy Geranium
Rosa sp.	Rose (groundcover varieties only)
Rosmarinus Prostratus	Trailing Rosemary
Vinca Minor	Dwarf Periwinkle

All shrubs which grow to a natural height of more than 18" shall be trimmed to a height of 18" or be removed at the contractor and/ or owners expense.

This list is not intended to be complete, nor is it to be final. Final selections of species shall be made by the City of Morgan Hill Public Works Superintendent, upon considering location, mature size of tree and general habitat of growth.

Trees and Ground Covers not listed, as well as deviations in maximum spacing, must be approved by the Public Works Superintendent.



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Public Works Department

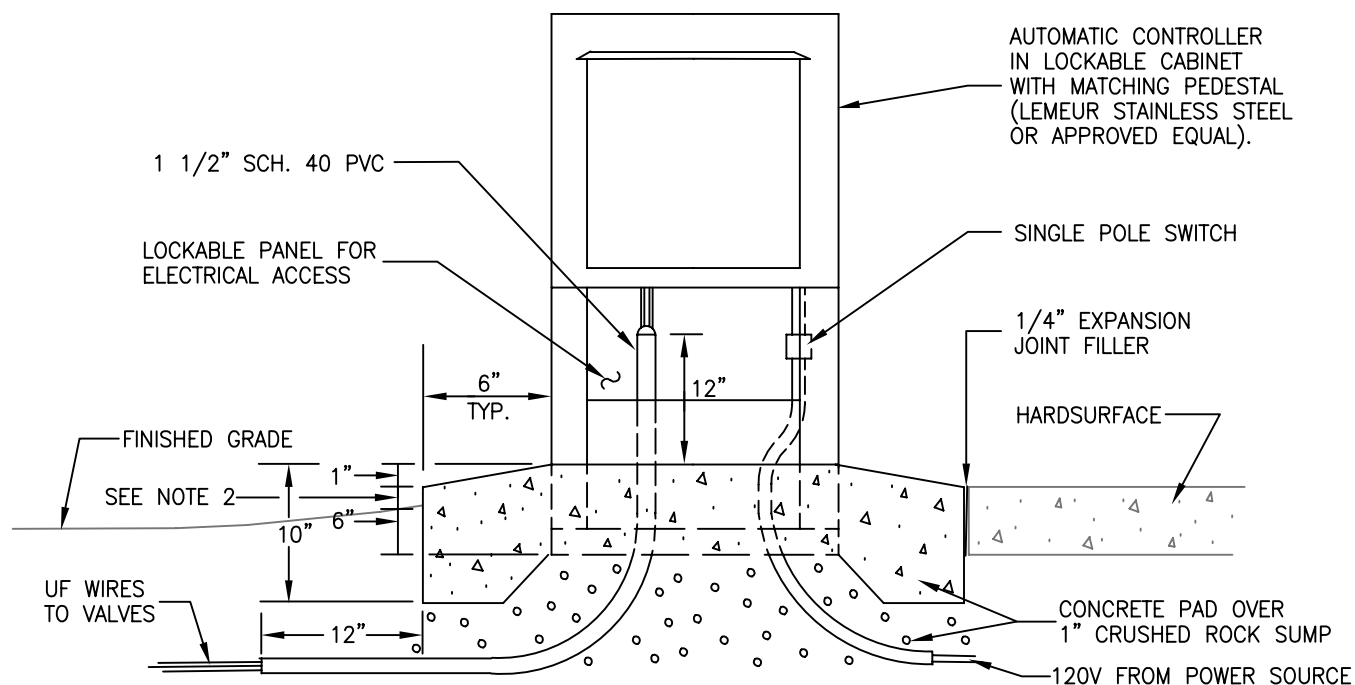
Jim Oschcraft
CITY ENGINEER

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DATE

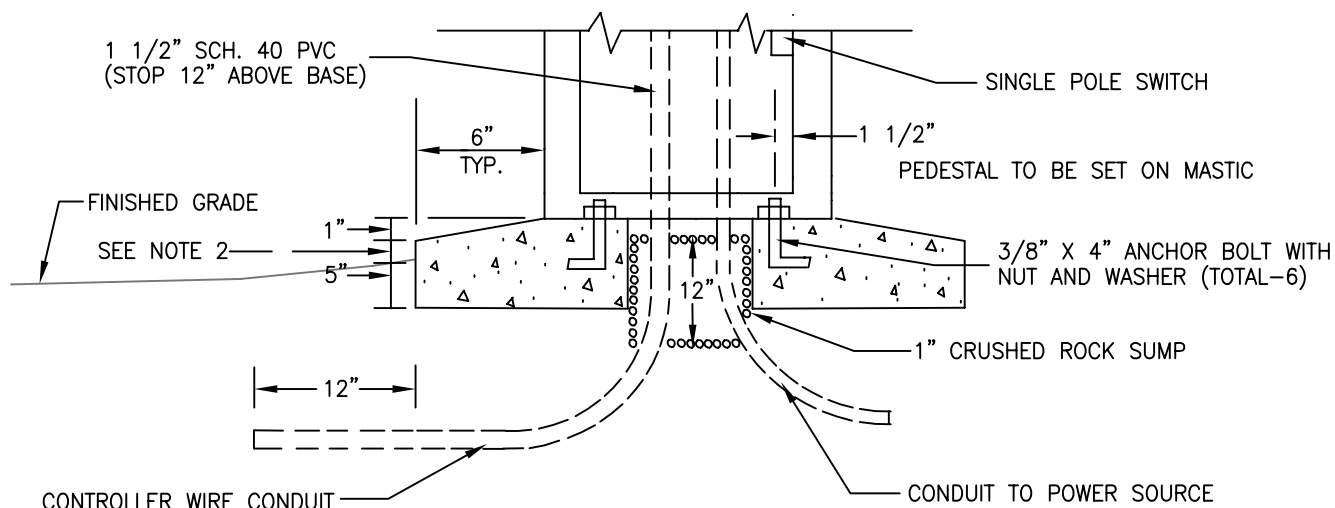
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**APPROVED TREES
AND
GROUND COVERS**

DRAWING
NO.
L-19



CASE 1



CASE 2

NOTES:

1. AREA AROUND BASE CAN EITHER BE PLANTED, HARDSURFACE OR A COMBINATION.
2. TOP OF BASE:
 1/2" ABOVE GRADE FOR LAWN.
 1" ABOVE GRADE FOR GROUND COVER AND SHRUBS.
3. IRRITROL MC + (SIZE AS REQUIRED) CONTROLLER NOT SHOWN.
4. SEE "ELECTRICAL SECTION" FOR POWER SOURCE CONNECTIONS.



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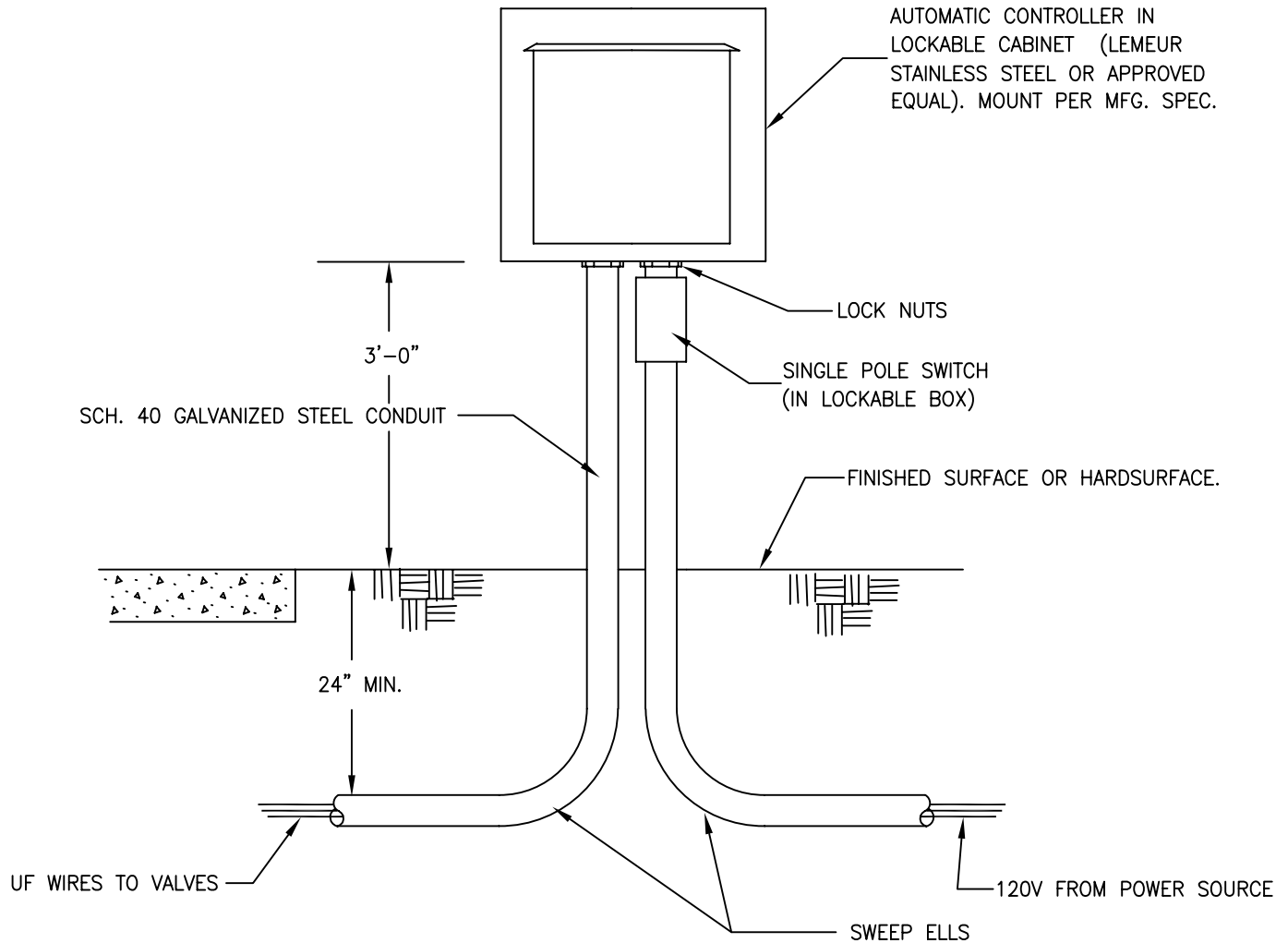
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**IRRIGATION CONTROLER
PEDESTAL MOUNT**

DRAWING
NO.

L-20



NOTES:

1. IRRITROL MC+ (SIZE AS REQUIRED) CONTROLLER NOT SHOWN.
- 2.. SEE "ELECTRICAL SECTION" FOR POWER SOURCE CONNECTIONS.



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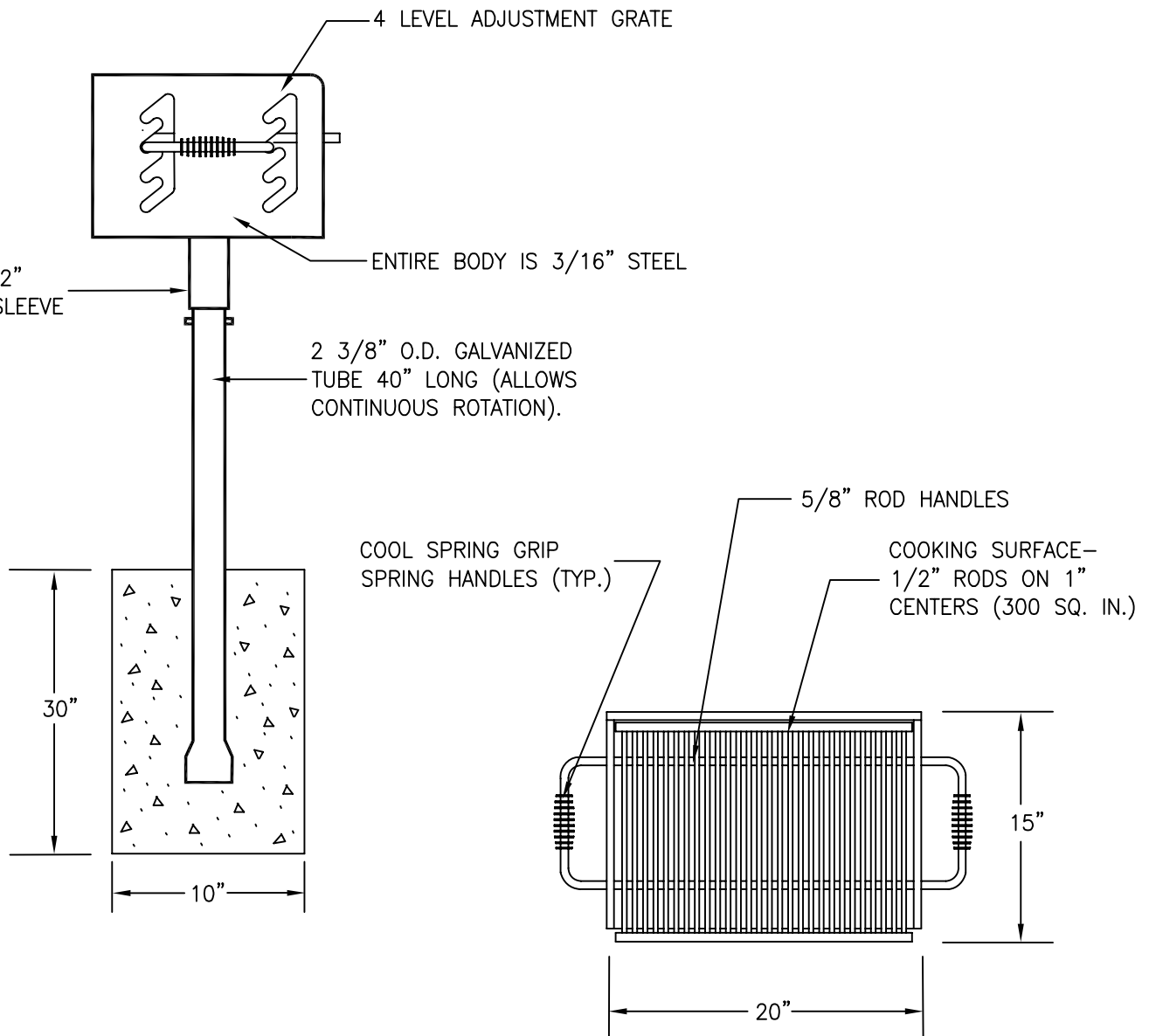
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**IRRIGATION CONTROLLER
WALL MOUNT**

DRAWING
NO.

L-21



NOTES:

1. SIZE OF FOOTING IS A SUGGESTION ONLY, CHECK WITH MANUFACTURER AND/OR PROJECT SOILS REPORT.
2. FINISH IS NON-TOXIC HEAT RESISTANT BLACK ENAMEL.
3. MODEL SHOWN IS "KAY PARK #SB16" (SB16G FOR GALVANIZED PEDESTAL) SUBMITTAL AND APPROVAL REQUIRED FOR ALL EQUALS.



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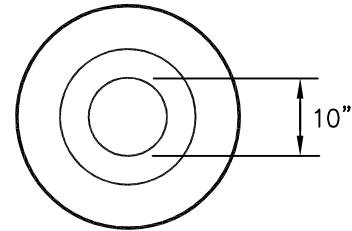
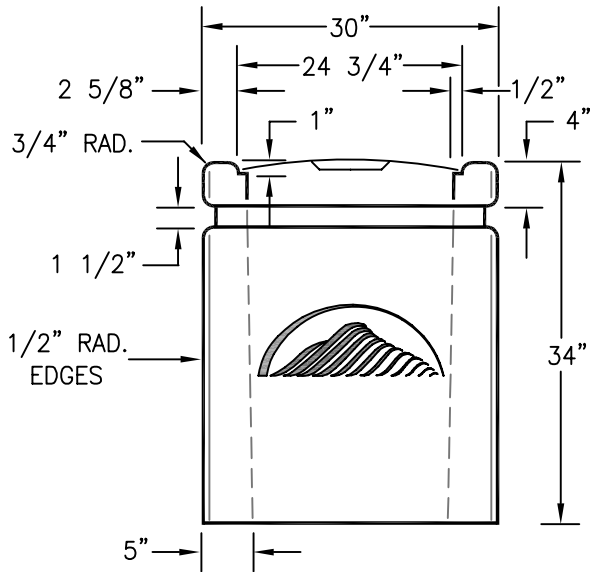
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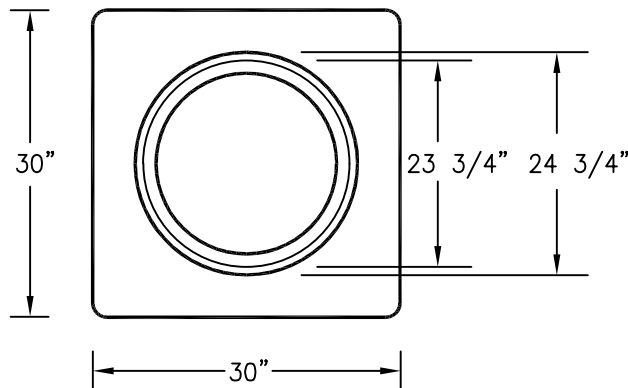
CHARCOAL RECEPTACLE

DRAWING
NO.

L-22



14 GAUGE METAL
POWDER COATED LID



NOTES:

1. MINIMUM THICKNESS OF ALL AREAS TO BE 5".
2. MINIMUM WEIGHT TO BE 1450 LBS.
3. COLORING AGENTS ARE TO BE PURE MINERAL OXIDES AND SHALL BE MIXED INTEGRALLY WITH CEMENT.
4. CONCRETE MIX DESIGN TO INCLUDE EIGHT AND ONE HALF (8.5) SACKS PORTLAND CEMENT PER YARD WITH MAXIMUM ROCK SIZE OF 3/4" REINFORCED WITH #4 AND #5 REBAR GRID. CURED CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 7,000 P.S.I.
5. ALL FORMED SURFACES AND EDGES SHALL BE FULLY ROUNDED AND SMOOTH FINISHED. FINISH OF ALL SURFACES TO HAVE A CONCRETE GRAFFITI-RESISTANT SEALER APPLIED.
6. BRACKET INSTALLED TO ACCEPT PLASTIC BAG INSERT.
7. MODEL SHOWN: "OUTDOOR CREATIONS MODEL #503". SUBMITTAL AND APPROVAL REQUIRED FOR ALL EQUALS.
8. SPECIFICATIONS FOR LOGO AVAILABLE UPON REQUEST FROM THE CITY OF MORGAN HILL DEPARTMENT OF PUBLIC WORKS AT 408-776-7333.



City of Morgan Hill
Public Works Department

Jim Ashcraft
CITY ENGINEER

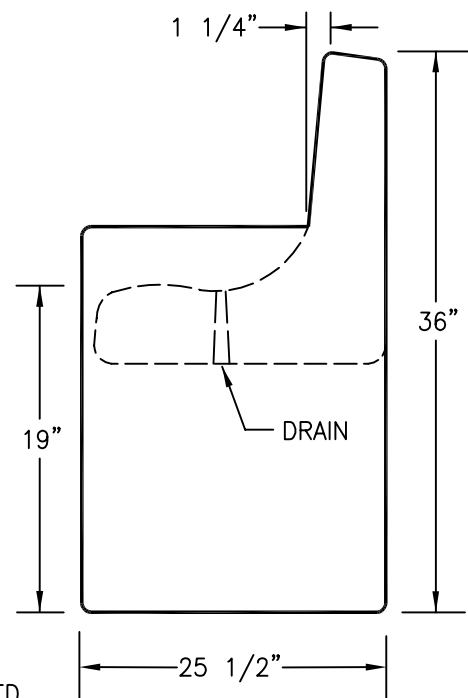
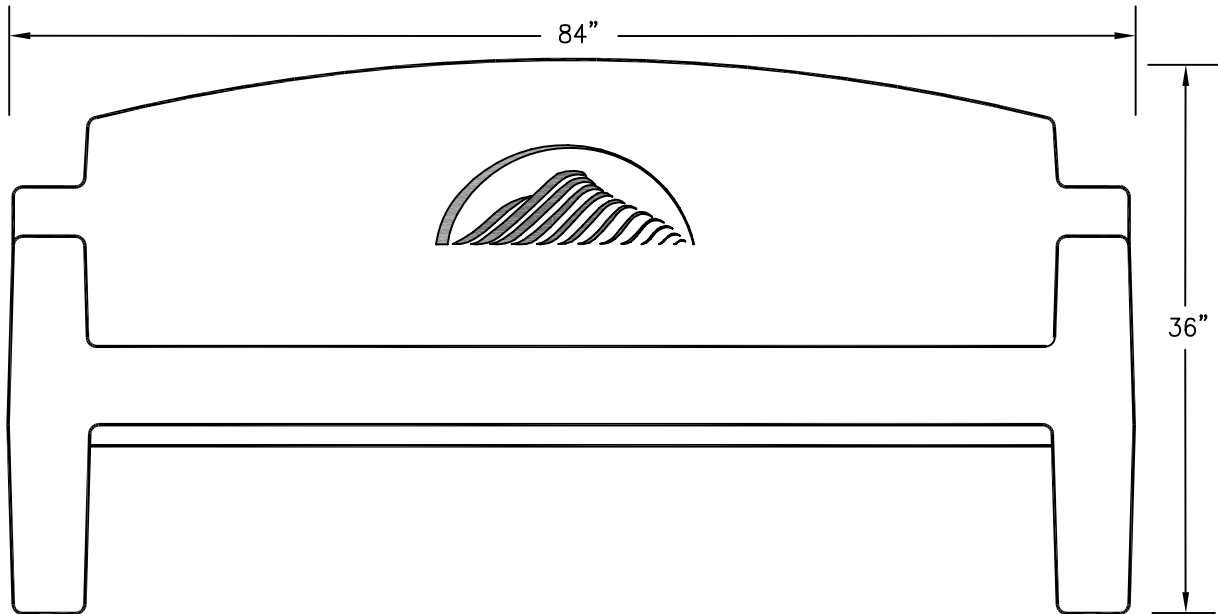
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WASTE RECEPTACLE

DRAWING
NO.

L-23



NOTES:

1. MINIMUM THICKNESS OF ALL AREAS TO BE 4".
2. MINIMUM WEIGHT TO BE 2000 LBS.
3. BENCH IS CAST IN ONE INTEGRAL PIECE. NO ASSEMBLY REQUIRED.
4. COLORING AGENTS ARE TO BE PURE MINERAL OXIDES AND SHALL BE MIXED INTEGRALLY WITH CEMENT. COLOR TO BE DAVIS COLORS SEQUOIA SAND. FINISH TO BE SMOOTH.
5. CONCRETE MIX DESIGN TO INCLUDE EIGHT AND ONE HALF (8.5) SACKS PORTLAND CEMENT PER YARD WITH MAXIMUM ROCK SIZE OF 3/4" REINFORCED WITH #4 AND #5 REBAR GRID. CURED CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 7,000 P.S.I.
6. ALL FORMED SURFACES AND EDGES SHALL BE FULLY ROUNDED AND SMOOTH FINISHED. FINISH OF ALL SURFACES TO HAVE A CONCRETE GRAFFITI-RESISTANT SEALER APPLIED.
7. MODEL SHOWN: "OUTDOOR CREATIONS #408". SUBMITTAL AND APPROVAL REQUIRED FOR ALL EQUALS.
8. SPECIFICATIONS FOR LOGO AVAILABLE UPON REQUEST FROM THE CITY OF MORGAN HILL DEPARTMENT OF PUBLIC WORKS-MAINTENANCE DIVISION AT 408-776-7333.



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Public Works Department

Jim Ashcraft
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8/6/98
DATE

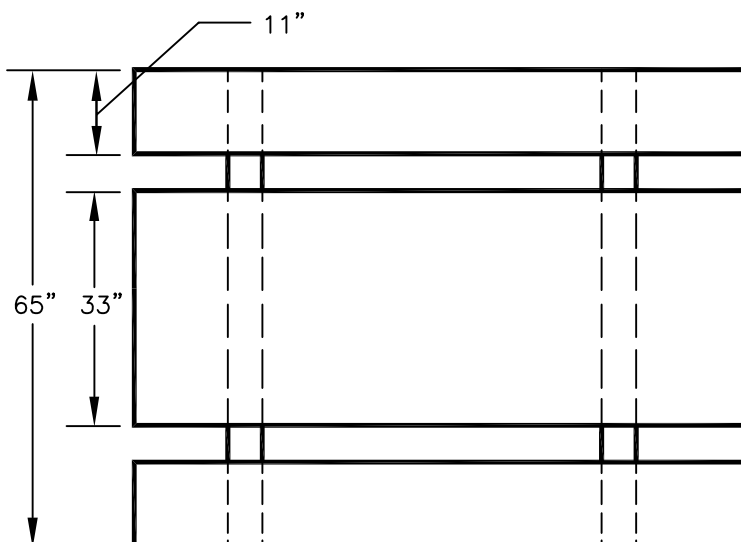
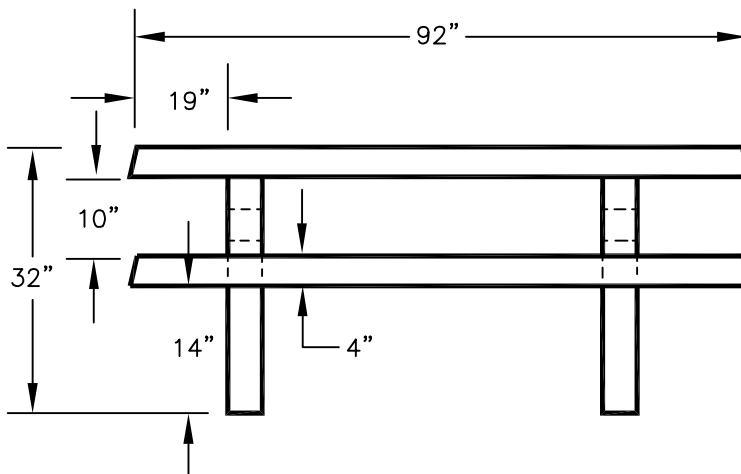
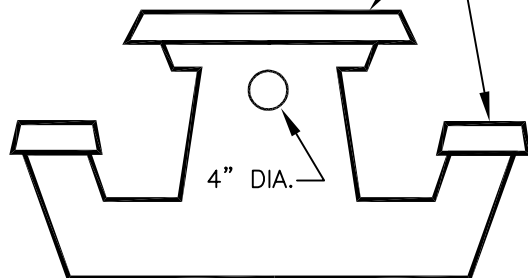
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CONTOUR BENCH

DRAWING
NO.

L-24

WOOD GRAIN TOP AND SEATS



NOTES:

1. MINIMUM THICKNESS OF ALL AREAS TO BE 4".
2. MINIMUM WEIGHT TO BE 2450 LBS.
3. PICNIC TABLE TOP, BENCHES, BENCH AND TABLE SUPPORTS CAST IN ONE INTEGRAL PIECE. NO ASSEMBLY REQUIRED.
4. COLORING AGENTS ARE TO BE PURE MINERAL OXIDES AND SHALL BE MIXED INTREGALLY WITH CEMENT.
5. CONCRETE MIX DESIGN TO INCLUDE EIGHT AND ONE HALF (8.5) SACKS PORTLAND CEMENT PER YARD WITH MAXIMUM ROCK SIZE OF 3/4" REINFORCED WITH #4 AND #5 REBAR GRID. CURED CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 7,000 P.S.I..
6. ALL FORMED SURFACES AND EDGES SHALL BE FULLY ROUNDED AND SMOOTH FINISHED. FINISH OF ALL SURFACES TO HAVE A CONCRETE GRAFFITI-RESISTANT SEALER APPLIED.
7. WOOD GRAIN AND ROCK TEXTURE MOLDED INTO CONCRETE SURFACE.
8. MODEL SHOWN: "OUTDOOR CREATIONS #104FSS (FOREST SERIES). SUBMITTAL AND APPROVAL REQUIRED FOR ALL EQUALS.



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Jim Ashcraft
CITY ENGINEER

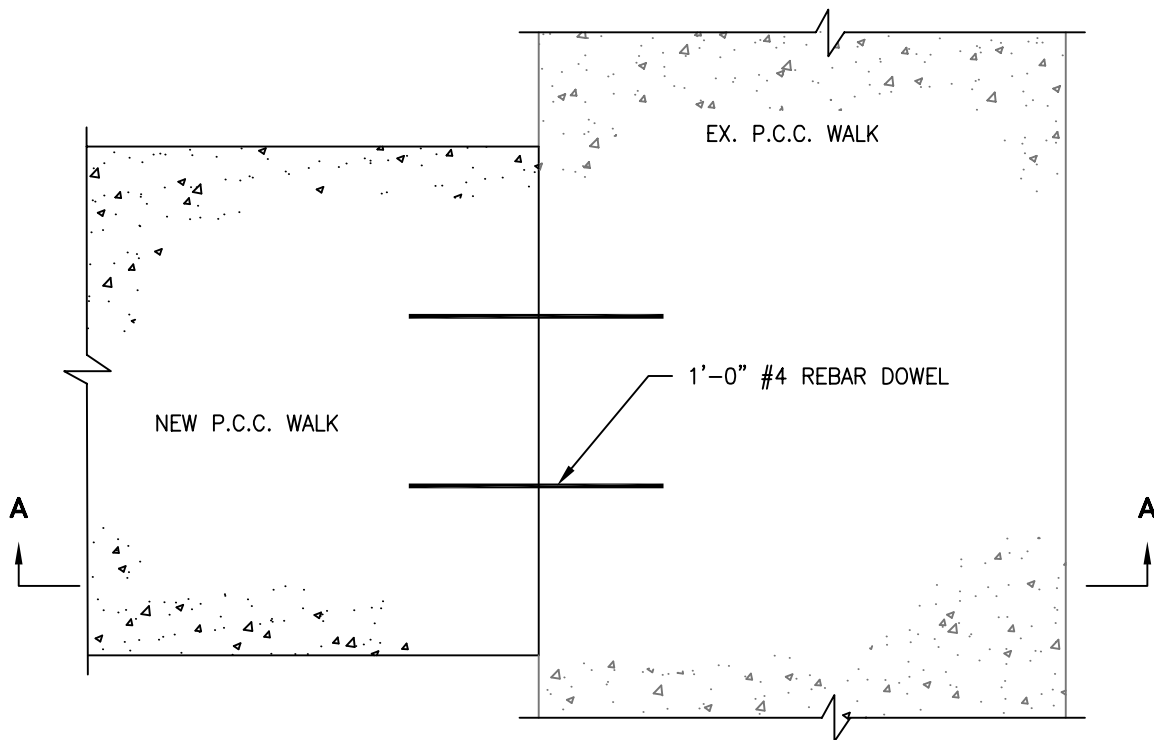
8/6/98
DATE

REVISD

PICNIC TABLE

DRAWING
NO.

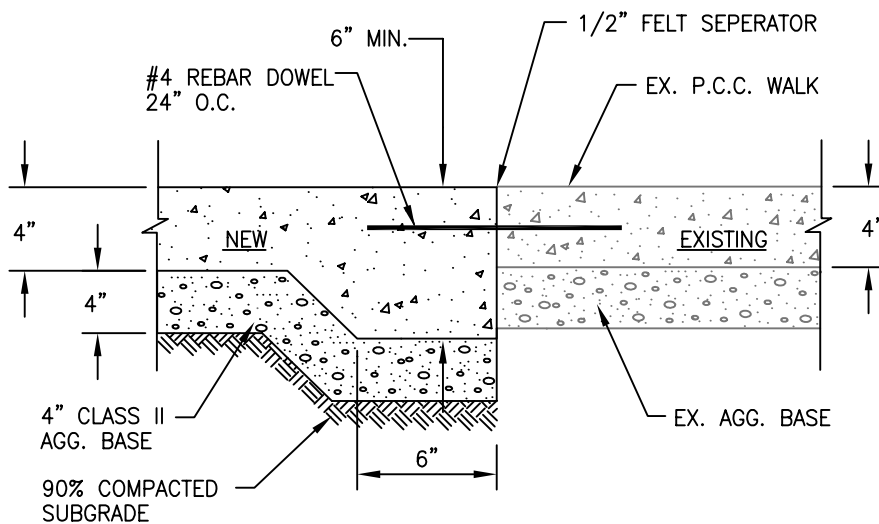
L-25



NOTE:

1. DRILL & EPOXY DOWEL INTO EX. P.C.C. & GREASE OTHER HALF BEFORE POURING.

PLAN



SECTION A-A



City of Morgan Hill
Public Works Department

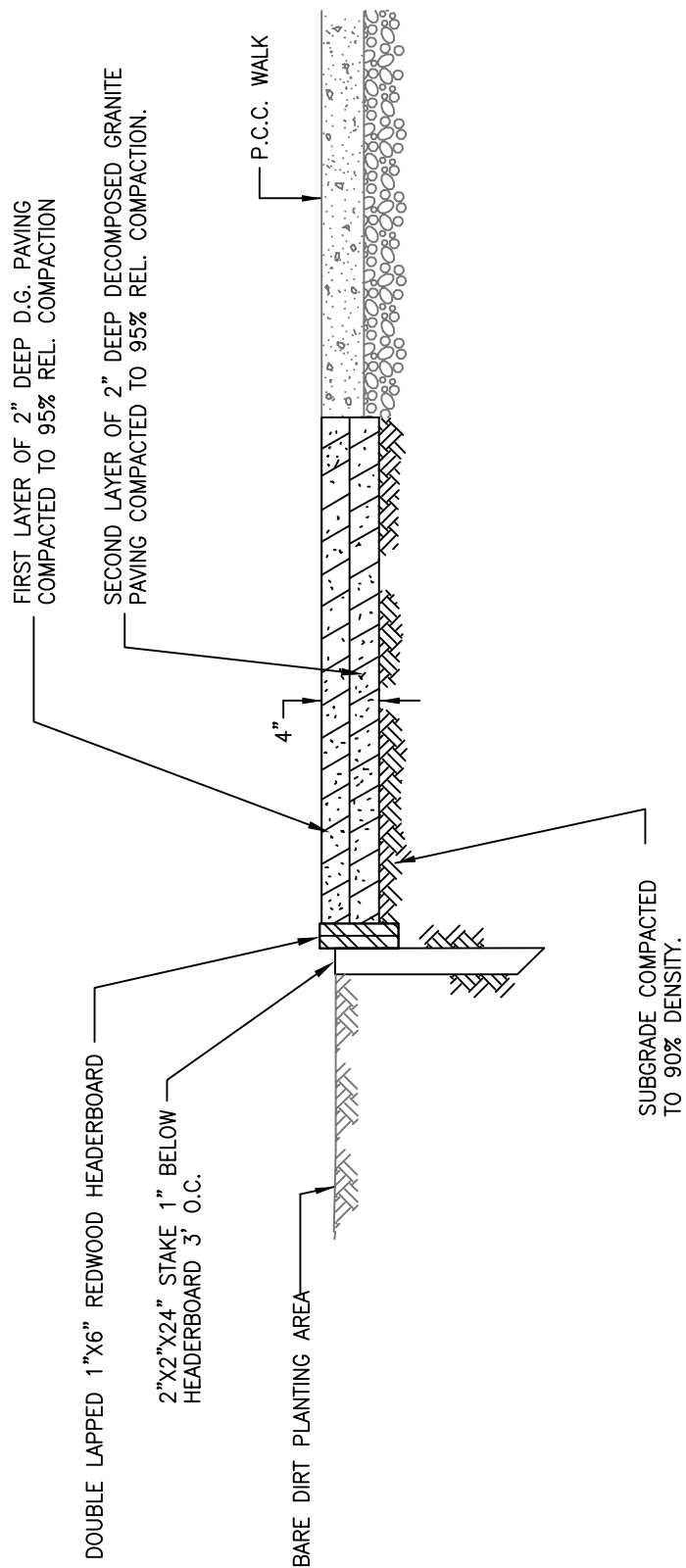
Jim Ashcraft
CITY ENGINEER

8/6/98
DATE

REVISED

**P.C.C. WALKWAY NEW WALK
TO EXISTING CONNECTION**

DRAWING
NO.
L-26



NOTE: FIRST LAYER OF D.G. SHALL BE COMPACTED
BEFORE INSTALLATION OF SECOND LAYER.



City of Morgan Hill
Public Works Department

Jim Ashcraft
CITY ENGINEER

8/6/98
DATE

REVISED

DECOMPOSED GRANITE PAVING

DRAWING
NO.

L-27